

Secret

X and Y are best friends and they love to chat with each other. But their recent concerns about the privacy of their messages has distant them. So they decided to encrypt their messages with a key, K, such that the character of their messages are now shifted K times towards right of their initial value. Their techniques only convert numbers and alphabets while leaving special characters as it is. Provided the value K you are required to encrypt the messages using their idea of encryption.

## INPUT FORMAT

The first line contains N and K(no of characters in the message and key foren crypton). The next line contains the message.

## OUTPUT FORMAT

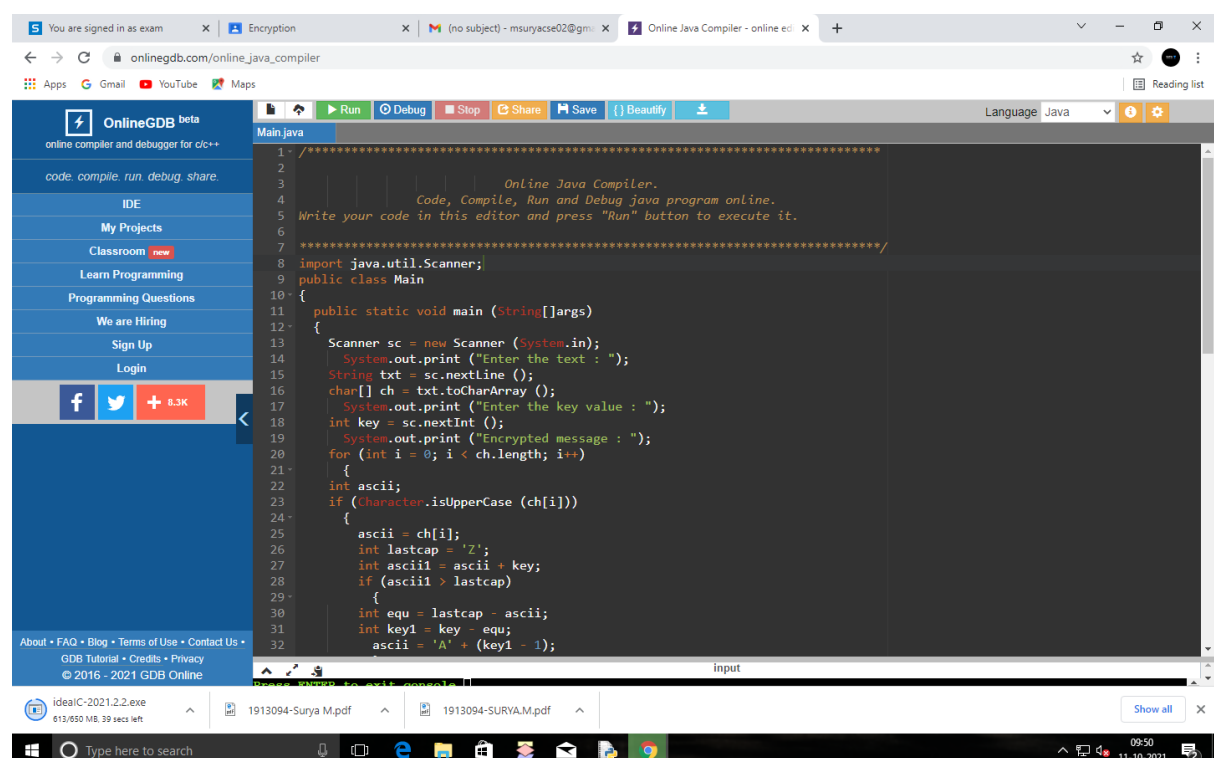
Output the encrypted messages on a new line.

Note1: Consider alphabets a...z and A...Z, digits 0...9.

Note2:While shifting if it reaches z or Z or 9, then continue shifting from a or A or 0.

Runtime Input :12 4 Hello-World!

Output :Lipps-Asvph!



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Main.java

```
32     ascii = 'A' + (key1 - 1);
33     }
34     else
35     {
36         ascii = ch[i] + key;
37     }
38 }
39 else if (Character.isLowerCase (ch[i]))
40 {
41     ascii = ch[i];
42     int lastlow = 'z';
43     int ascii1 = ascii + key;
44     if (ascii1 > lastlow)
45     {
46         int equ = lastlow - ascii;
47         int key1 = key - equ;
48         ascii = 'a' + (key1 - 1);
49     }
50     else
51     {
52         ascii = ch[i] + key;
53     }
54 }
55 else if (Character.isDigit (ch[i]))
56 {
57     ascii = ch[i];
58     int lastdigi = '9';
59     int ascii1 = ascii + key;
60     if (ascii1 > lastdigi)
61     {
62         int equ = lastdigi - ascii;
63         int key1 = key - equ;
```

input

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Main.java

```
49     }
50     else
51     {
52         ascii = ch[i] + key;
53     }
54 }
55 else if (Character.isDigit (ch[i]))
56 {
57     ascii = ch[i];
58     int lastdigi = '9';
59     int ascii1 = ascii + key;
60     if (ascii1 > lastdigi)
61     {
62         int equ = lastdigi - ascii;
63         int key1 = key - equ;
64         ascii = '0' + (key1 - 1);
65     }
66     else
67     {
68         ascii = ch[i] + key;
69     }
70 }
71 else
72 {
73     ascii = ch[i];
74 }
75 System.out.print ((char) ascii);
76 }
77 }
78 }
79 }
80 }
```

input

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Main.java

```
49 }
50 else
51 {
52     ascii = ch[i] + key;
53 }
54 }
55 else if (Character.isDigit (ch[i]))
56 {
57     ascii = ch[i];
58     int lastdigi = '9';
59     int ascii1 = ascii + key;
60     if (ascii1 > lastdigi)
61     {
62         int equ = lastdigi - ascii;
63         int key1 = key - equ;
64         ascii = '0' + (key1 - 1);
65     }
66     else
67     {
68         ascii = ch[i] + key;
69     }
70 }
71 else
72 {
73     ascii = ch[i];
```

input

Enter the text : Hello-World!  
Enter the key value : 4  
Encrypted message : Lipps-Asvph!

...Program finished with exit code 0  
Press ENTER to exit console.

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